

#### ABSTRACT

The present invention relates to a cDNA chip for screening and function analysis of swine genes and provides a cDNA chip comprising a probe to detect marker genes specifically expressed in the muscle and fat tissues of swine, in which the probe is capable of complementarily bind to the marker genes. Also, the present invention provides expression profiles of marker genes which are related to economic traits of swine by using the cDNA chip according to the present invention. Therefore, the cDNA chip according to the present invention can be used for the comparison of genetic expression according to swine breeds and tissues, genetic mutation screening, genetic polymorphism interpretation, development of new drugs for disease treatment and disease diagnosis, swine improvement.